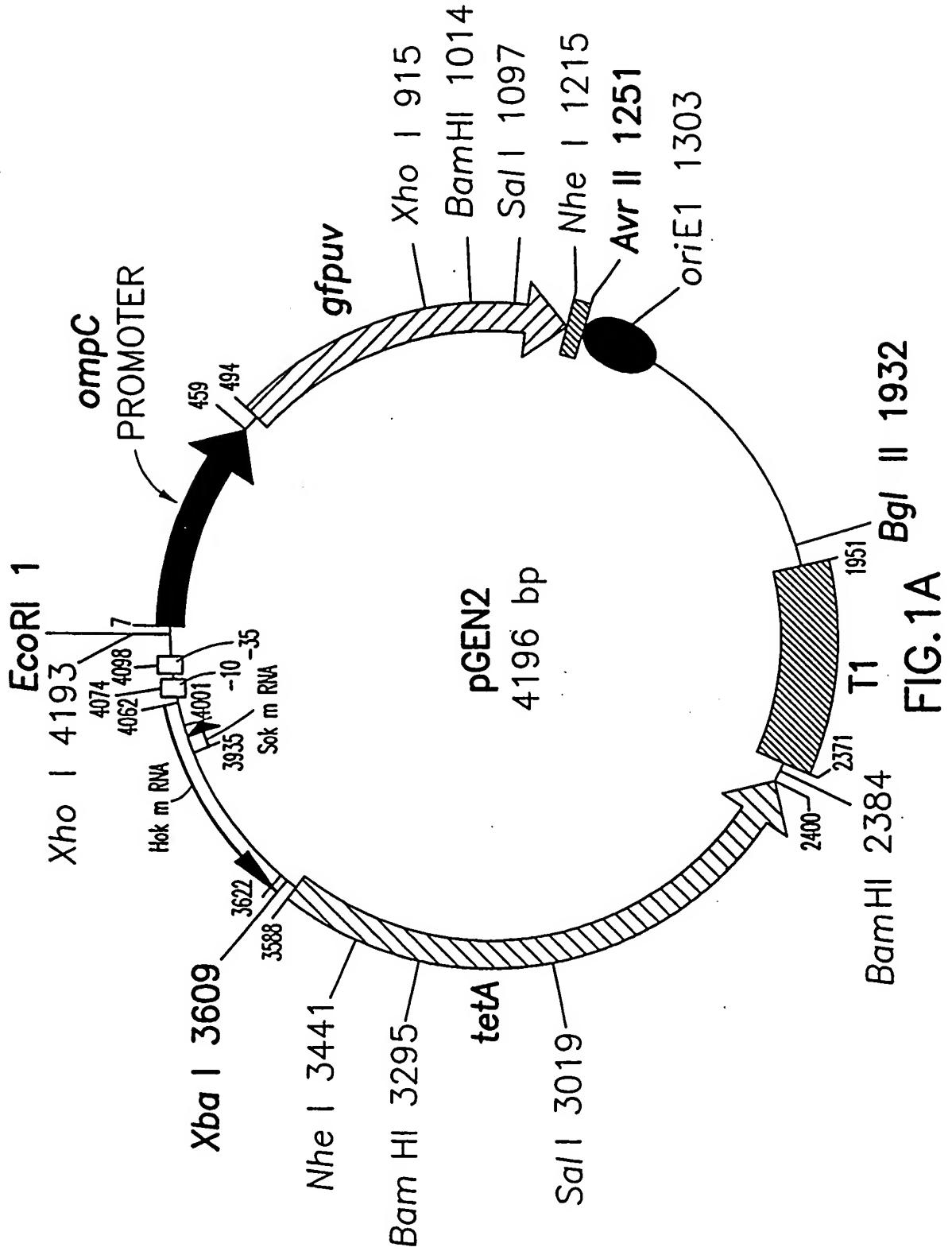
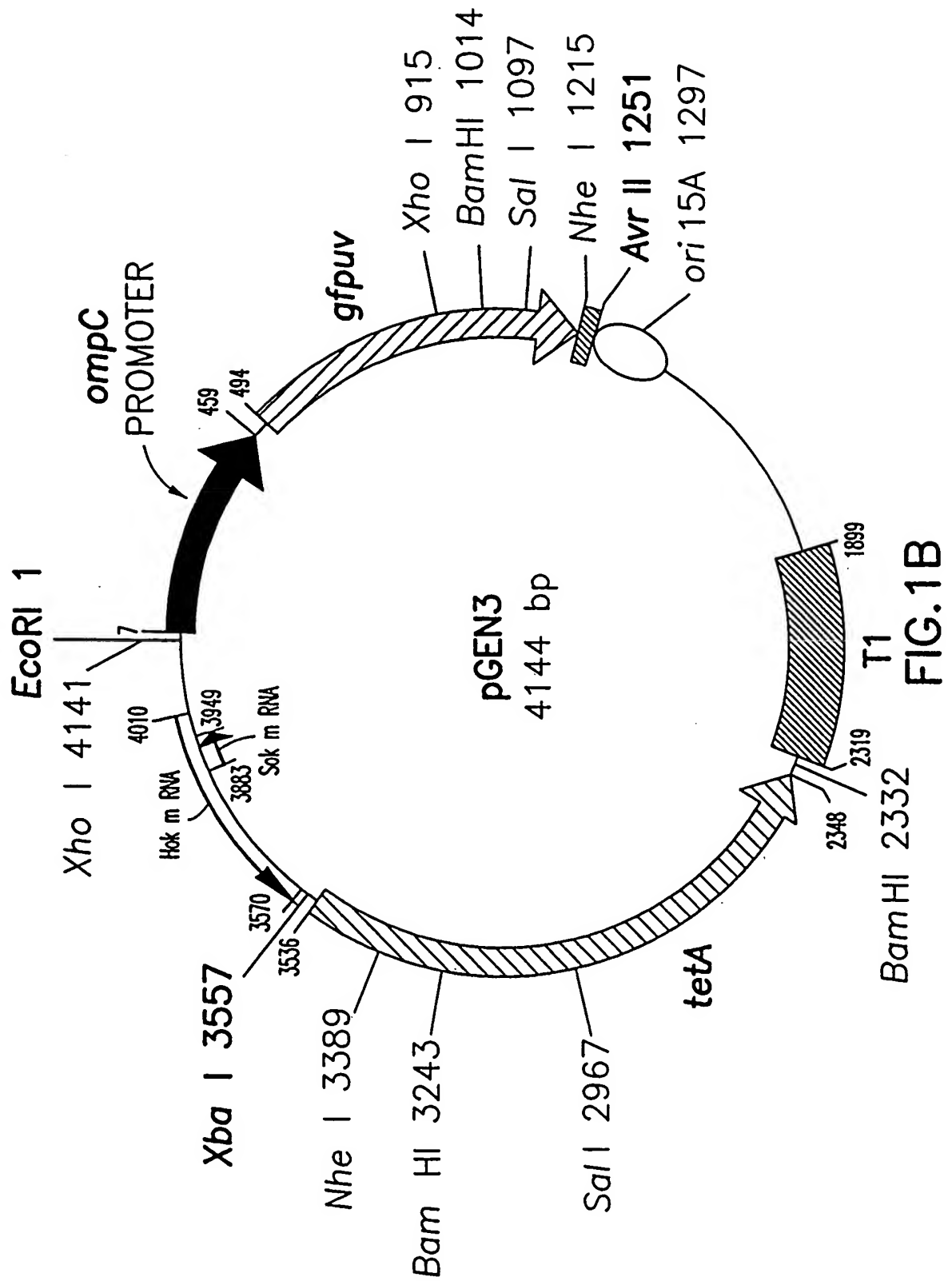


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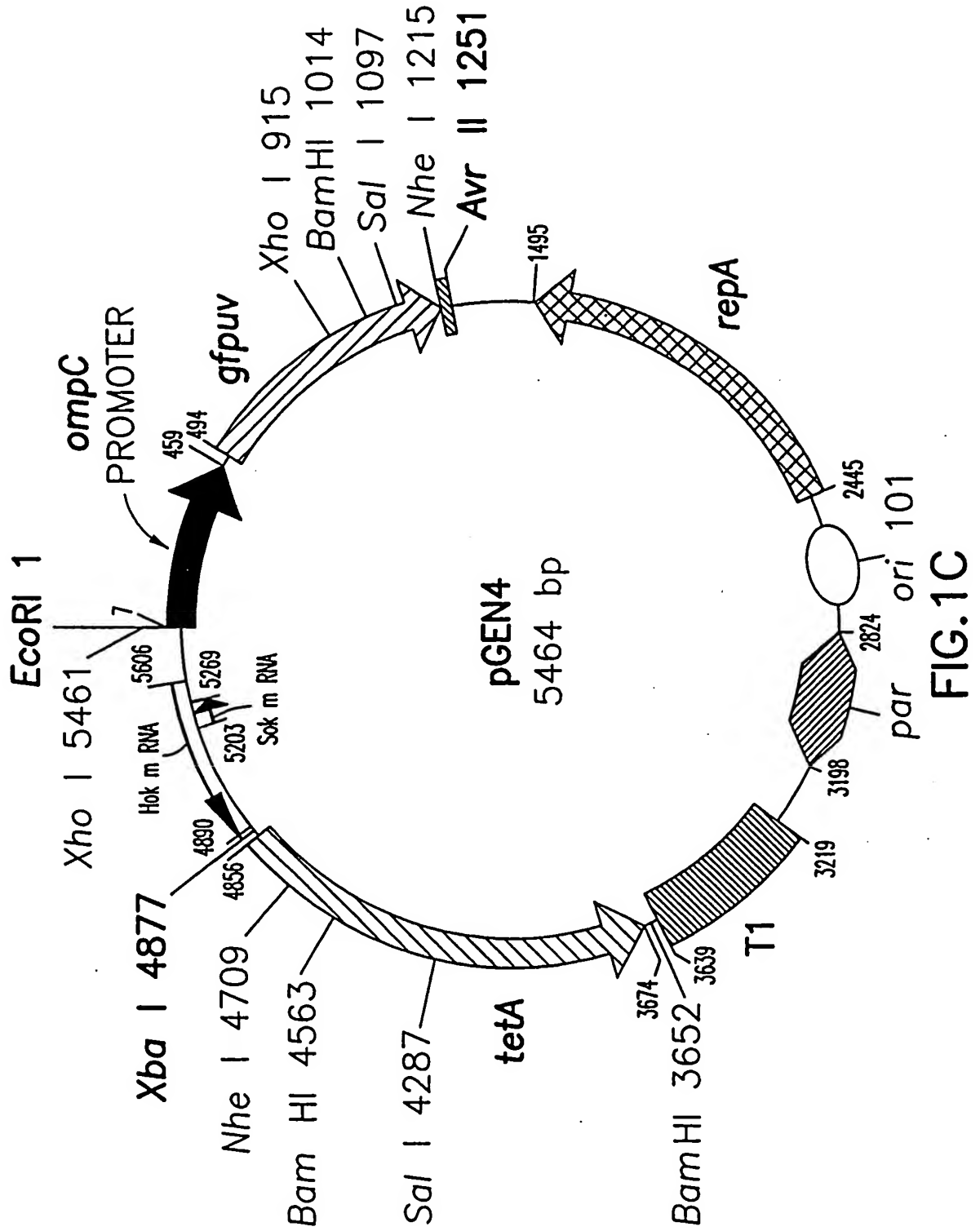


FIG.1C

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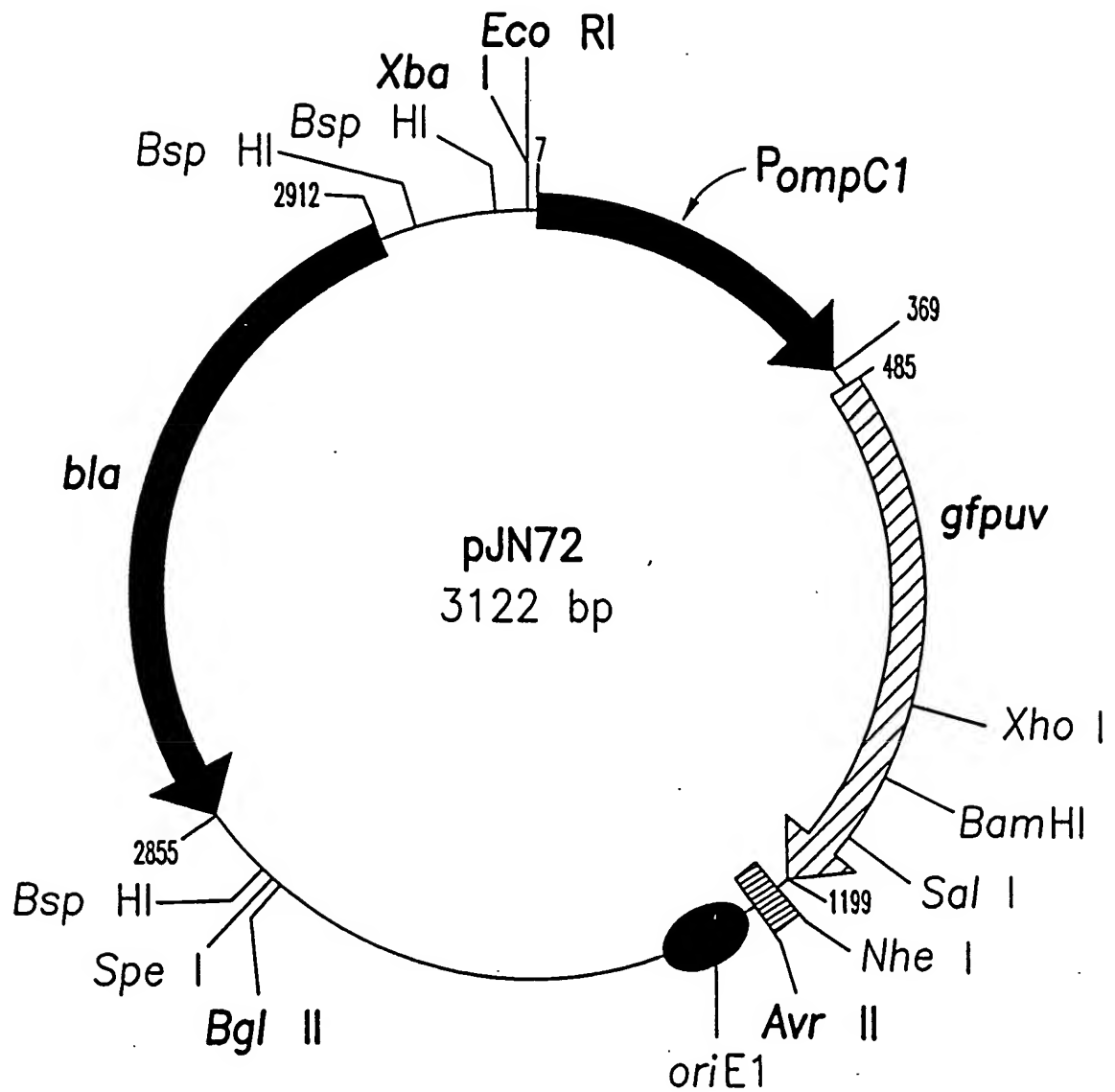


FIG.2A

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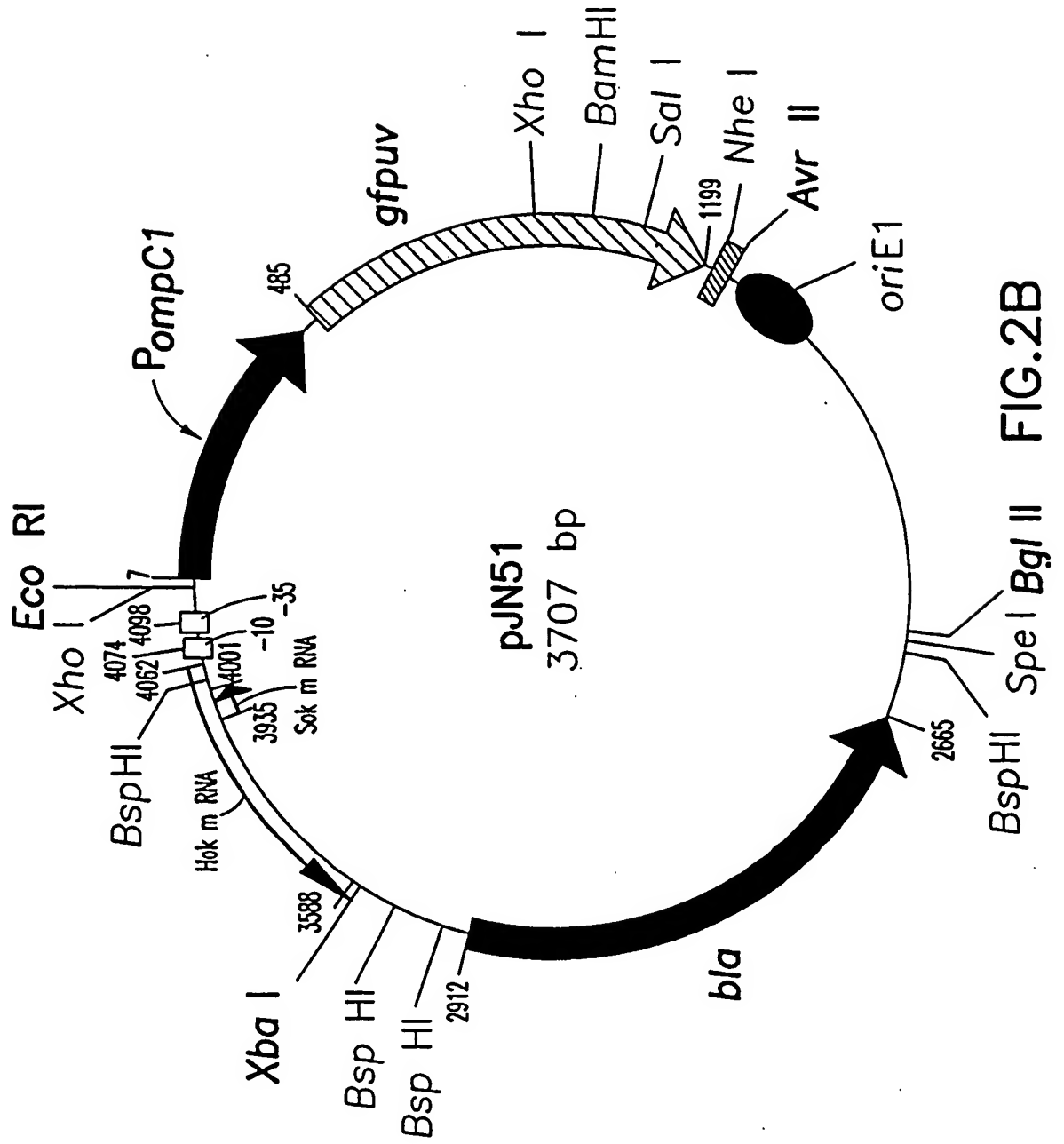


FIG.2B

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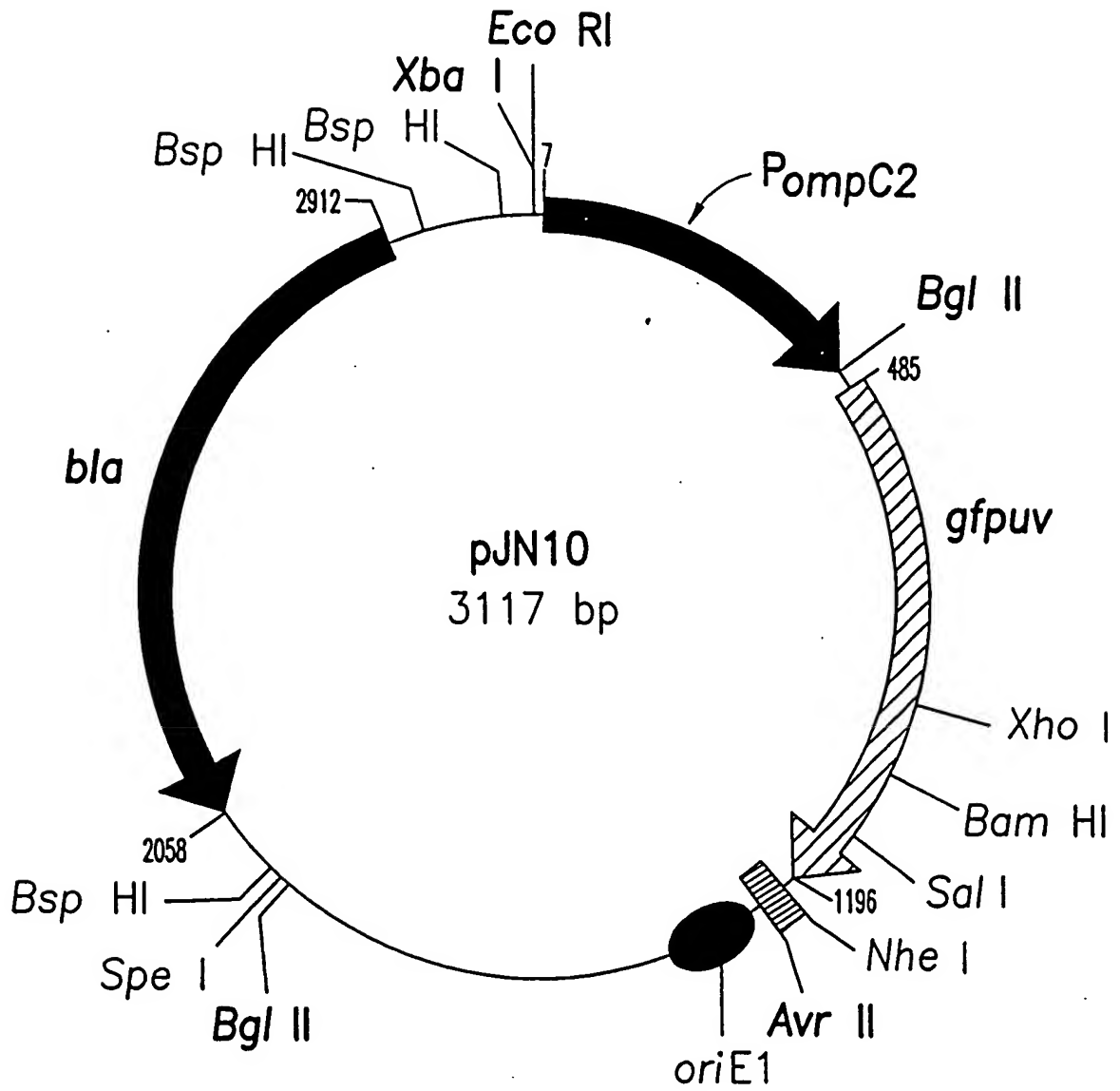


FIG.2C

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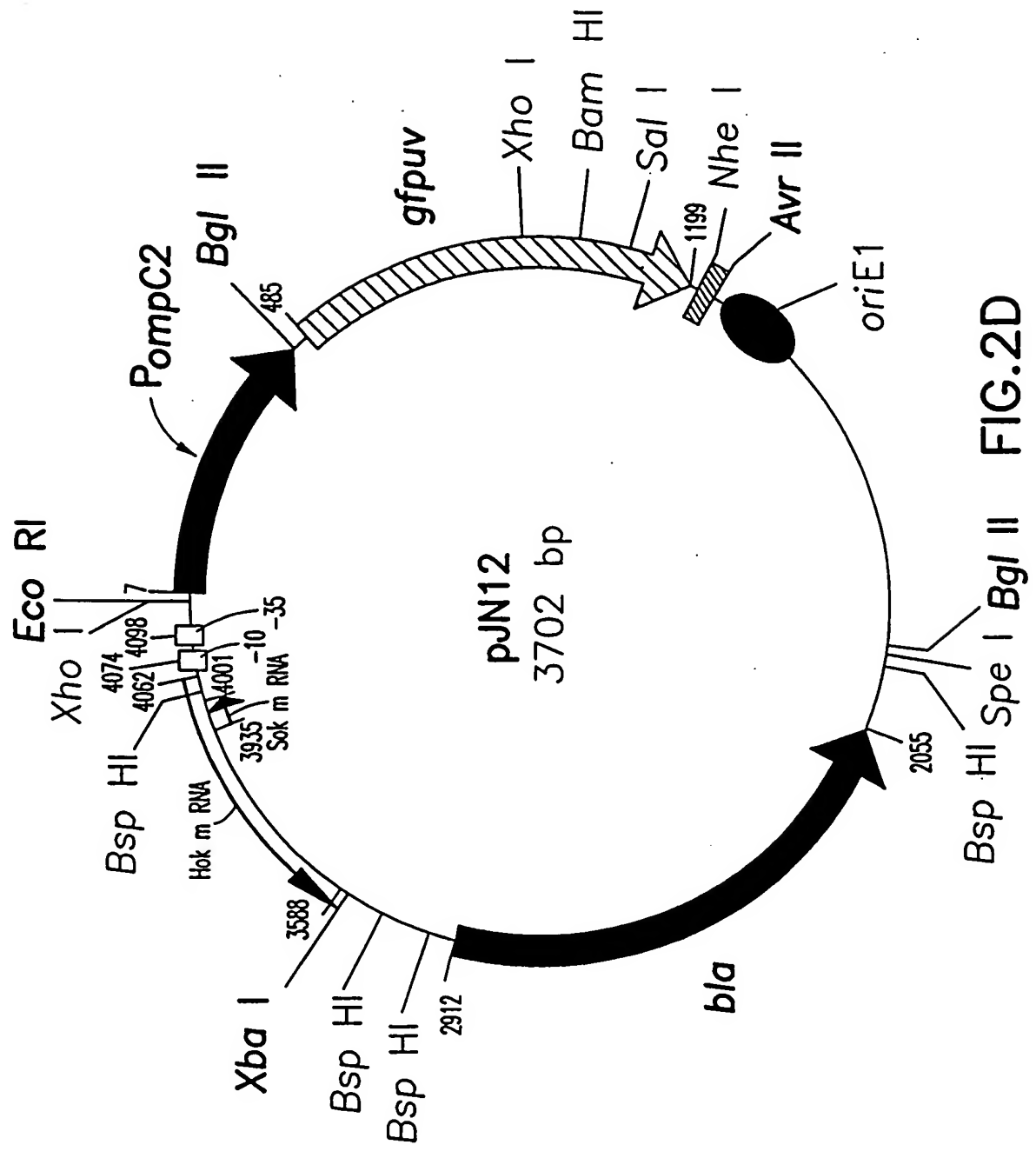


FIG.2D

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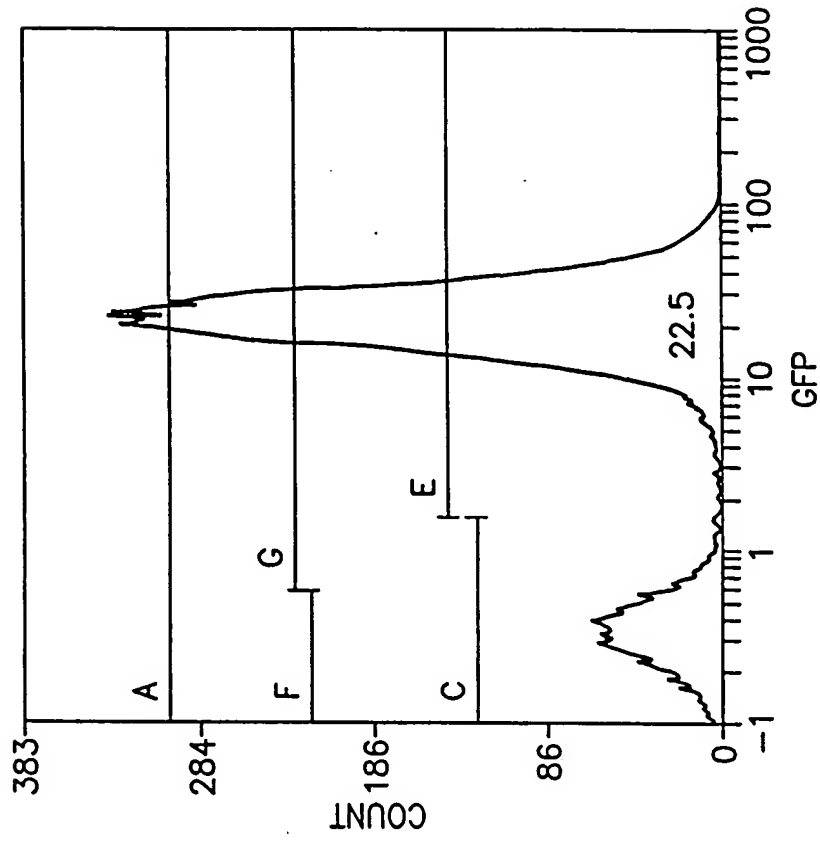


FIG. 3B

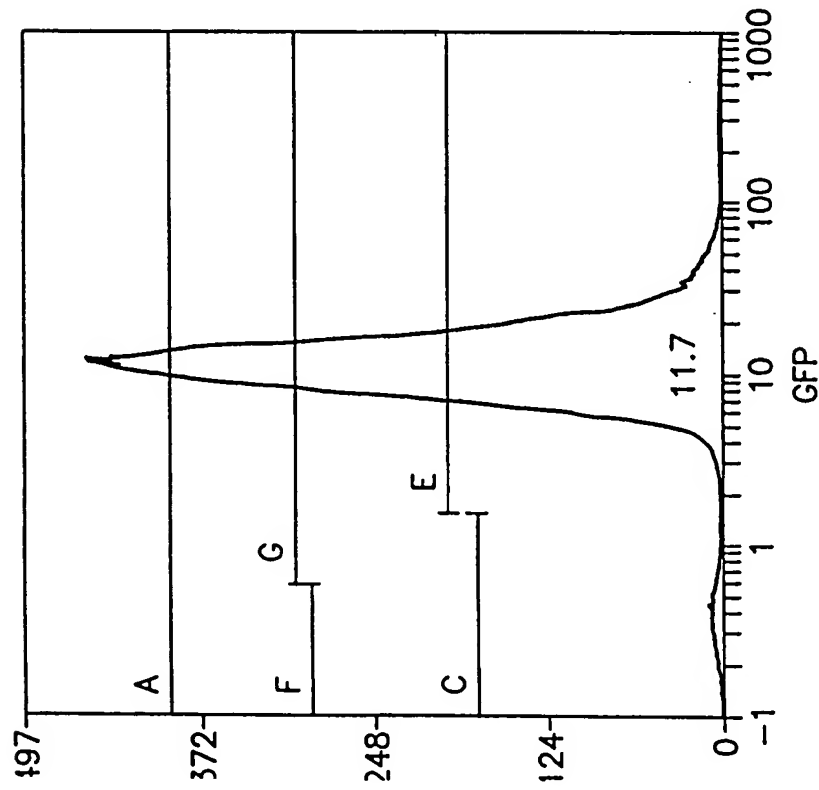


FIG. 3A

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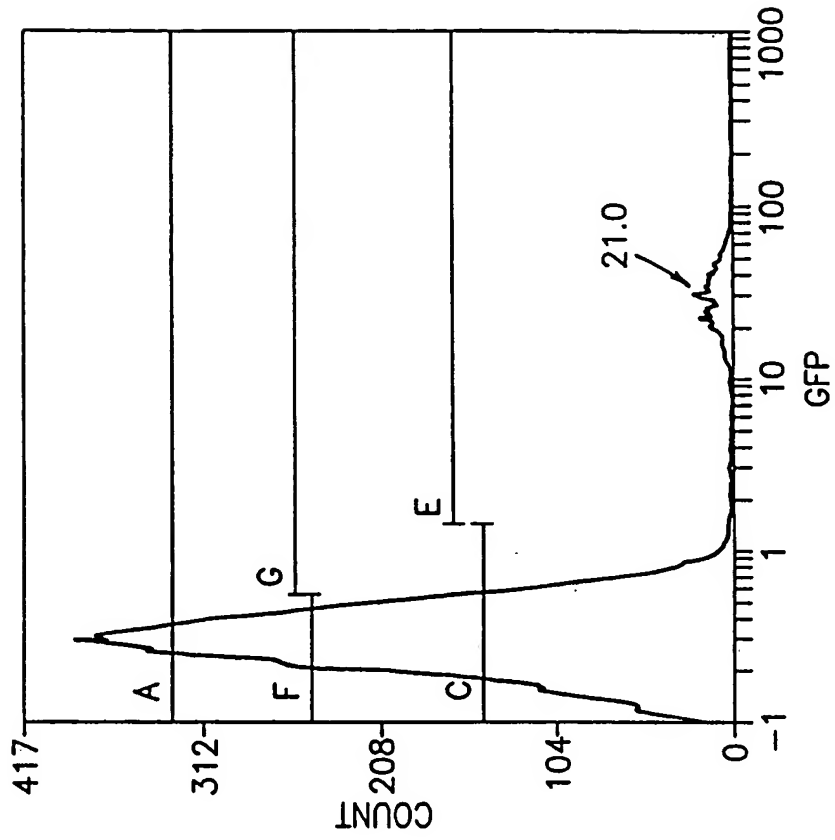


FIG. 3D

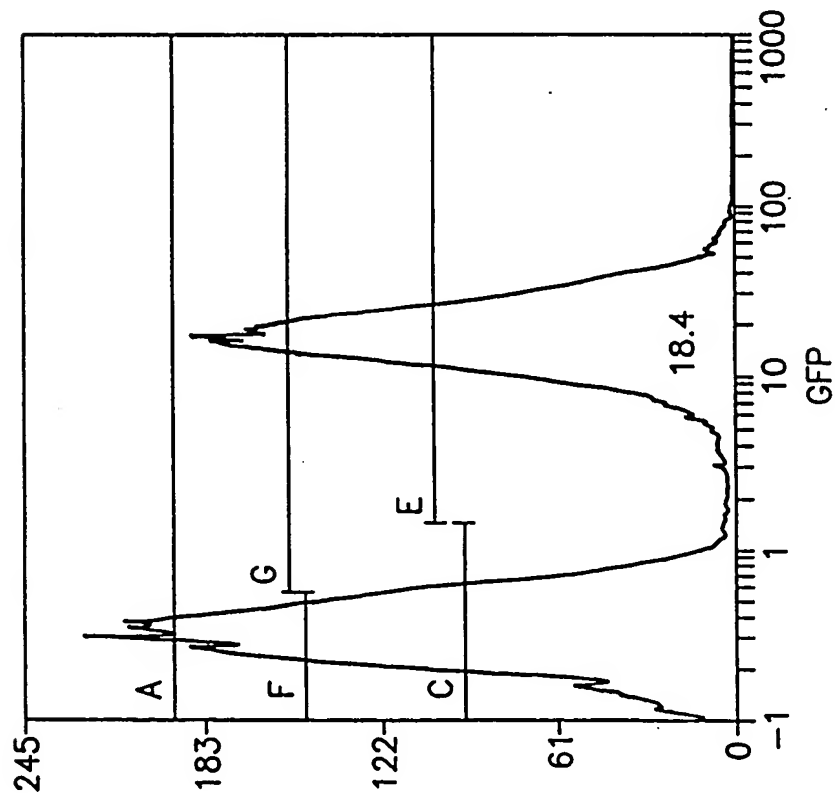


FIG. 3C

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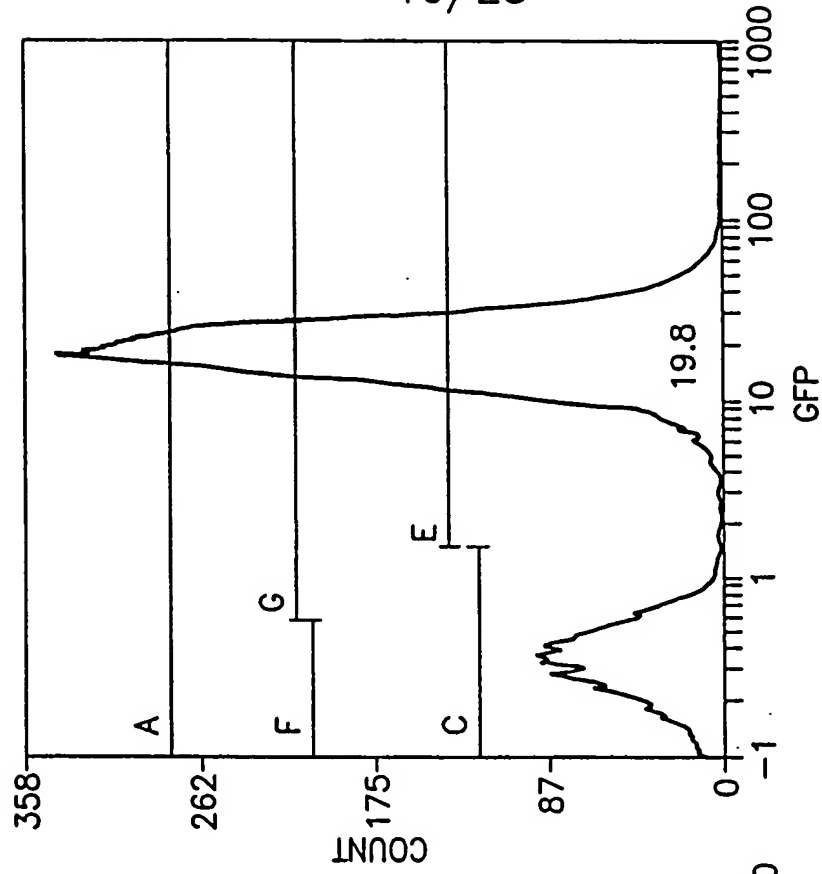


FIG. 3F

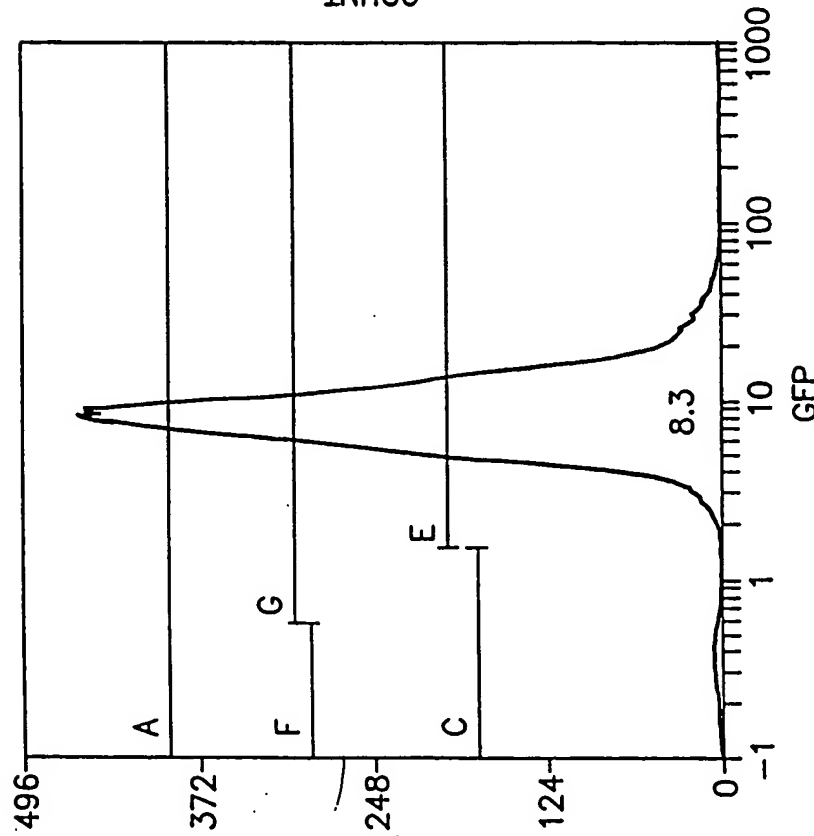


FIG. 3E

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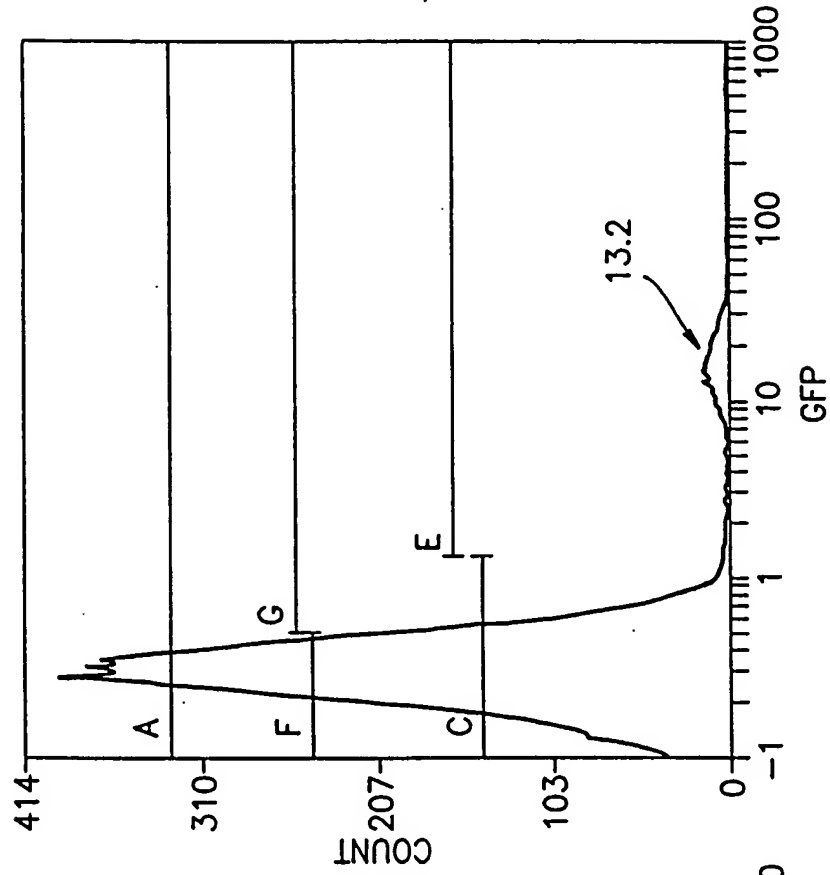


FIG. 3H

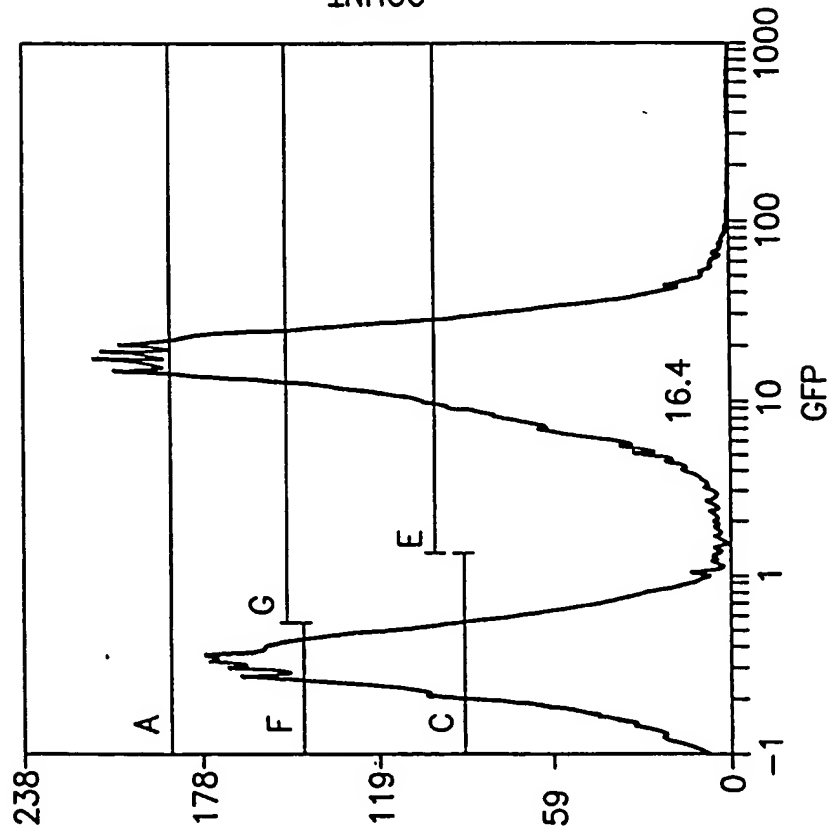


FIG. 3G

FIG. 4A

gaattctgtg gtagcacaga ataatgaaaa gtgtgtaaag aagggtaaaa aaaacgaat 60
 gogaggcatc oggttgaaat aggggtaaac agacattcag aatgaatga oggtaataaa 120
 taaagttaat gatgatagag ggagttattc tagttgogag tgaaggtttt gttttgacat 180
 tcagtgtgt caaatactta agaataagtt attgatttta aocctgaatt attattgctt 240
 gatgttaggt gcttatttog ocattoogca ataacttaa aaagttoct tgcatttaca 300
 ttttgaaaca tctatagoga taaatgaaac atcttaaaag ttttagtattc atattogtgt 360
 tggattattc tgcatttttg gggagaatgg acttgoogac tgattaatga gggttaatca 420
 gtaggcagtg gcataaaaaa gcaataaaag gcataataca gatogattctt aaacatccac 480
 aggaggatat ctgatgagta aaggagaaga acttttccact ggagttgtoc caattcttgt 540
 tgaattagat ggtgatgtta atgggcacaa attttctgtc agtgagagag gtgaagggtga 600
 tgcaacatac ggaaaactta cacttaaatt tatttgcaact actggaaaac tacctgttcc 660
 atggccaaca cttgtcacta ctttctctta tgggtgttcaa tgctttttoc gttatcogga 720
 tcatatgaaa oggcattgact ttttcaagag tgocatgoc gaaggttatg tacaggaaag 780
 cactatatct ttcaaatgatg aogggaaacta caagaoggt gctgaagtca agtttgaagg 840
 tgataccctt gttaatogta togagtttaa aggtattgat tttaaagaag atggaaacat 900
 tctoggacac aaactogagt acaactataa ctcacacaat gtatacatca oggcagacaa 960
 acaaaaagaat ggaatcaaag ctaacttcaa aattogocac aacattgaag atggatcogt 1020
 tcaactagca gacattatc aacaaaatac tocaattggc gatggcoctg tocttttacc 1080

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jacaacat taactgtoga cacaatctgc octttogaaa gatoccaaog aaaagogtga 1140
 acatggtc cttcttgagt ttgtaactgc tgctgggatt acacatggca tggatgagct 1200
 -acaaataa tgagctagoc ogctaataga gggggctttt tttctoggc ctagggccag 1260
 aaaaggoca ggaacogtaa aaaggcogog ttgctggggt ttttccatag gctcogcccc 1320
 ctgaogagc atcacaaaaa togaogctca agtcagaggt ggogaaaoccc gacaggacta 1380
 aaagataac aggggtttcc ooctgggaagc tccctogtgc gctctoctgt tooagacccg 1440
 cgcttaoog gataoctgtc ogcctttctc octtogggaa gogtggogct ttctcatagc 1500
 caogctgta ggtatctcag ttogggtag gtogttogct ocaagctggg ctgtgtgcac 1560
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 ggtatgtag ggggtgctac agagtctctg aagtgggtggc ctaactaogg ctacactaga 1740
 gacagtat ttggtatctg ogctctgctg aagccagtta octtoggaaa aagagtgggt 1800
 gctcttgat ccggcaaaaca aaccacogct ggtagogggtg gtttttttgt ttgcaagcag 1860
 agattaogc gcagaaaaaaa aggatctcaa gaagatocct tgatcttttc taoggggtct 1920
 aogctcagt agatctaaaa cactaggcc aagagtttgt agaaaogcaa aaaggccatc 1980
 gtcaggatg goctcttgct taatttgatg octggcagtt tatggogggc gtocctgcccc 2040
 caocctcog ggcogttgct togcacagtt caaatcogct ccggggggat ttgtcctact 2100
 aggagagcg ttcaocgaca aacaacagat aaaaogaaa gcccagtcct togactgagc 2160

FIG.4B

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FIG.4C

tttoggttt atttgatgoc tggcagttoc ctactctogc atggggagac ccacactac 2220
catoggogct aoggogtttc acttctgagt toggcatggg gtcaggtggg accaooogoc 2280
tactgcoogc aggcacaattc tgttttatca gacogcttct gogttctgat ttaatctgta 2340
tcaggctgaa aatcttctct catocgocaa aacagocaaag ctggatoccc gatcttatca 2400
jgtogaggtg gccoggctoc atgcacogog aogcaaoog gggagggcaga caaggtatag 2460
jggoggogct acaatocatac ocaaoogtt ocatgtgtc googagggog cataaatogc 2520
ogtgaogatc agoggtoacag tgatogaagt taggtggta agagooogga gogatocttg 2580
aagctgtoc tgatggtoct catctaocctg octggacagc atggocctgca aogogggcat 2640
coogatgoog ooggagoga gaagaatcat aatggggaag gccatocagc ctogogtogc 2700
jaogocagc aagaogtagc ocagogotc ggocogocatg ooggogataa tggocctgctt 2760
ctogcogaaa ogtttggtgg ogggaocagt gaogaaggct tgagogaagg ogtgcaagat 2820
tcogaatacc gcaagogaca ggocgatcat ogtoogctc cagogaagaagc ggtocctogoc 2880
gaaatgaoc cagagogctg ooggcaoctg toctaogagt tgcataataa agaagacagt 2940
cataagtgo gogaogatag tcatgoooo ogccacoggg aaggagctga ctgggttgaa 3000
ggctctcaag ggcatoogtc gaogctctoc cttatgogac toctgcatta ggaagcagoc 3060
cagtagtagg ttgaggcoct tgagcaocgc ogocgaagg aatggtgcat gcaaggagat 3120
ggogoccaac agtccccogg ocaogggoc tgocaocata ocaogocga aacaagocct 3180
catgagocog aagtggogag oogatcttc ccatoogtg atgtoggoga tataggogoc 3240

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jcaacogca octgtggogc oggtgatgoc ggocaogatg ogtooggogt agaggatoca 3300
jggacgggt gtggtogoca tgatogogta gtogatagtg gctocaaagta gogaagogag 3360
jggactggg oggoggocaa agoggtogga cagtgtctog cagtaagggtg agcatagaaa 3420
jgcatcaac gcataatagc ctagcagcac gocatagtga ctggogatgc tgtoggaaatg 3480
jogatatoc ogcaagaggc ooggcagtac oggcataaac aagocatatgc ctacagcatc 3540
jgggtgacg gtgocgagga tgaogatgag ogcattgtta gatttcattt tttttctctc 3600
jtattttct agacaaacatc agcaaggaga aaggggctac oggogaocaa gcagococctt 3660
jataaggog cttcagtagt cagacagca tcagtoctga aaaggogggc ctgogococgc 3720
jocaggttg ctacttacg gattoytaag ocatgaaagc ogcacoctoc ctgtgtcoogt 3780
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jacacaogat caacacacac cagacaaggg aacttogtgg tagtttcagtg gocttcttct 3900
jttgogcaa agogoggtaa gaggctatoc tgatgtggac tagacatagg gatgoctogt 3960
jtggttaat gaaaattaac ttactaoggg gctatcttct ttctgocaca caacaogga 4020
jaaaccaoc ttcaogtcat gaggcagaaa goctcaagcg oogggcacat catagoccat 4080
taoctgcac gctgaocaca ctactttoc ctgaaaataa tcoogtcatt cagacogttc 4140
jgggaaatc ogtgtgattg ttgoogcatc aogctgoctc ooggagttag tctoga 4196

```

FIG.4D

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ctacaaataa tgagctagac ogcctaataga gggggctttt ttttctoggc ctaggagata 60
cttaacaggg aagtgagagg gcoogggcaa agcogttttt ocataggctc ogoooooctg 120
acaagcatca ogaaatctga ogctcaaatc agtggtggog aaacccagaca ggactataaa 180
gataccaggc gtttccccct ggoggctaac togtgogctc toctgttact goctttoggt 240
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ccactggcag cagccactgg taattgattt agaggagtta gtcttgaagt catgogocgg 480
ttaaggctaa actgaaagga caagttttgg tgactgogct octocaaagc agttaoctog 540
gttcaaagag ttggtagctc agagaaocctt ogaaaaaocg cactgcaagg oggttttttc 600

FIG.5A

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tttcagag caagagatta ogogcagaoc aaaogatct caagaagatc atcttattaa 660
agataaaa tatttctagg atctaaaaca ctaggoccaa gagttttagtag aaagcaaaa 720
ggocatoo tcaggatggc cttctgctta atttgatgoc tggcagttta tggogggogt 780
tgcoogoc aooctooggg oogttgcttc gcaaogettca aatoogetoc oggoggattt 840
coctactca ggagagogtt cacogacaaa caacagataa aaogaaaggc ocagtctttc 900
actgagoc ttogttttat ttgatgoc tggatgoc actctogcat ggggagagoc 960
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acogogcta ctgocgocag gcaaattctg ttttatcaga oogcttctgc gttctgattt 1080
atctgtatc aggtgaaaa tcttctctca toogocaaaa cagocaaagt ggcataccga 1140
ttatcagg toaggtggc oogctocat gcaocogagac gcaocogggg gaggcag 1197

FIG.5B

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ctacaaataa tgagctagcc ggcctaataga gggggctttt ttttctoggc ctaggtttca 60
octgttctat taggtgttac atgctgttca tctgtttacat tgto gatctg ttc atggtga 120
acagctttaa atgcaacaaa aactogtaaa agctctgatg tatctatctt ttttacacog 180
ttttcatctg tgcataatga cagtttttooc tttgatatact aaoggtgaac agtgtttcta 240
cttttgtttg ttagtcttga tgcttcaactg atagatacaa gagocataag aaocctcagat 300
octtcoogtat ttagccagta tgttctctag tgtggttugt tgtttttgog tgagoccatga 360
gaacgaacca ttgagatcat gcttactttg catgtcactc aaaaattttg octcaaaact 420
ggtgagctga atttttgcag ttaaagcacc gtgtagtgtt tttcttagtc ogttaogtag 480
gtaggaatct gatgtaatgg ttgttggtat ttgtgcacca ttcattttta tctggttgtt 540
ctcaagttog gttaogagat ccatttgtct atctagtcca acttggaataa tcaaatgtatc 600
agtogggogg octogcttat caaccaacaa tttcatatgt ctgtaagtgt ttaaatcttt 660
acttattggg ttcaaaaacc attgggttaag ctttttaaac tcatggtagt tattttcaag 720
cattaacatg aactaaatt catcaaggct aatctctata tttgocctgt gagttttctt 780
ttgtgttagt tcttttaata aocactcata aatocctcata gagtatttgt tttcaaaaaga 840
cttaacatgt tocagattat attttatgaa tttttttaac tggaaaagat aaggcaatat 900
ctcttacta aaaactaatt ctaatttttc gcttgagaac ttggcatagt ttgtocactg 960
gaaaatctca aagoccttaa ocaaaggatt cctgatttcc acagttctog tcatcagctc 1020
tctggttgct ttagctaata caacataaagc atttttocta ctgatgttca tcatctgagc 1080

FIG. 6A

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attggtta taagtgaag ataacgttoog ttcttctoct gtagggtttt caatogtggg 1140
tgagtagt gocacacagc ataaaattag cttggtttca tgctoogtta agtcatagag 1200
taatogct agttcatttg ctttgaaaac aactaattca gacatacatc tcaattgggtc 1260
aggtgattt taatcactat accaattgag atgggctagt caatgataat tactagtctt 1320
toctttga gttgtgggta tctgtaaatt ctgctagaac tttgctggaa aacttgtaaa 1380
ctgctaga coctctgtaa attcoogctag aoccttctgt gttttttttg tttatatcca 1440
tggtttata atttatagaa taaagaaaga ataaaaaag ataaaaagaa tagatccag 1500
ctgtgtat aactcactac tttagtcagt toogcagtat tacaaaaagga tgtogcaaac 1560
ctgtttgtc octctacaaa acagaoccta aaacoctaaa ggcttaagta gcaocctogc 1620
agctogggc aaatogctga atattocttt tgtctcoogac catcaggcac ctgagtogct 1680
tctttttog tgacattcag ttogctgogc tcaoggctct tcaoggtgaat gggggtaaat 1740
gcactacag gogocctttta tggattcatg caaggaaact acccataata caagaaaagc 1800
gtcaoggg cttctcaggg ogttttatgg ogggtctgct atgtgggtgct atctgacttt 1860
tgctgttca gcagtttoctg coctctgatt ttocagtcg accacttogg attatccogt 1920

FIG.6B

jacaggtcat tcagactggc taatgcaoc agtaaggcag oggtatcatc aacaggctta 1980
 xogtcttac tgtcaacogg atctaaaca ctaggcccaa gagtttgtag aaacgcaaaa 2040
 aggcatoog tcaggatggc cttctgctta atttgatgoc tggcagttta tggcgggggt 2100
 xctgcccgc aacctoogg cgttgcttc gcaacgttca aatcogctoc cggcgggattt 2160
 jtoctactca ggagagogtt caacgacaaa caacagataa aaagaaaggc ccagtcttctc 2220
 jactgagoc ttogttttat ttgatgocgt gcagttcoct actctogcat ggggagagacc 2280
 cacactaoca toggogctac ggggtttcac ttctgagttc ggcattgggtt caggctgggac 2340
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 aatctgtatc aggctgaaaa tcttctctca toogcaaaa cagccaagct ggatcccccga 2460
 tcttatcagg toagggtggc ccgctccat gcacccggac gcaacggggg gaggcagaca 2520
 aggtataggg cggcggocctac aatccatgoc aacccgttcc atgtgctcgc cggcggggca 2580
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 gatocctt

FIG.6C

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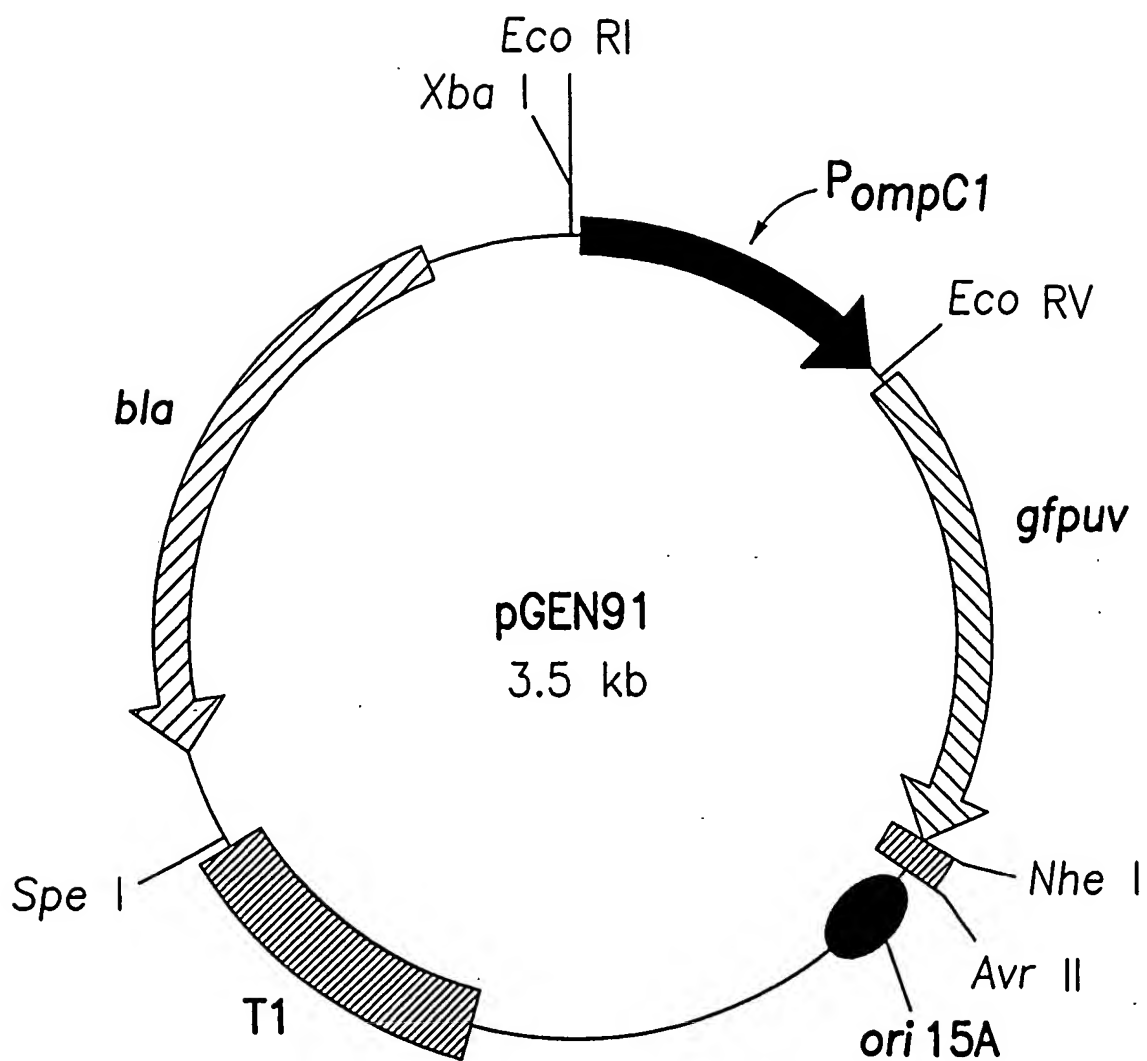


FIG.7A

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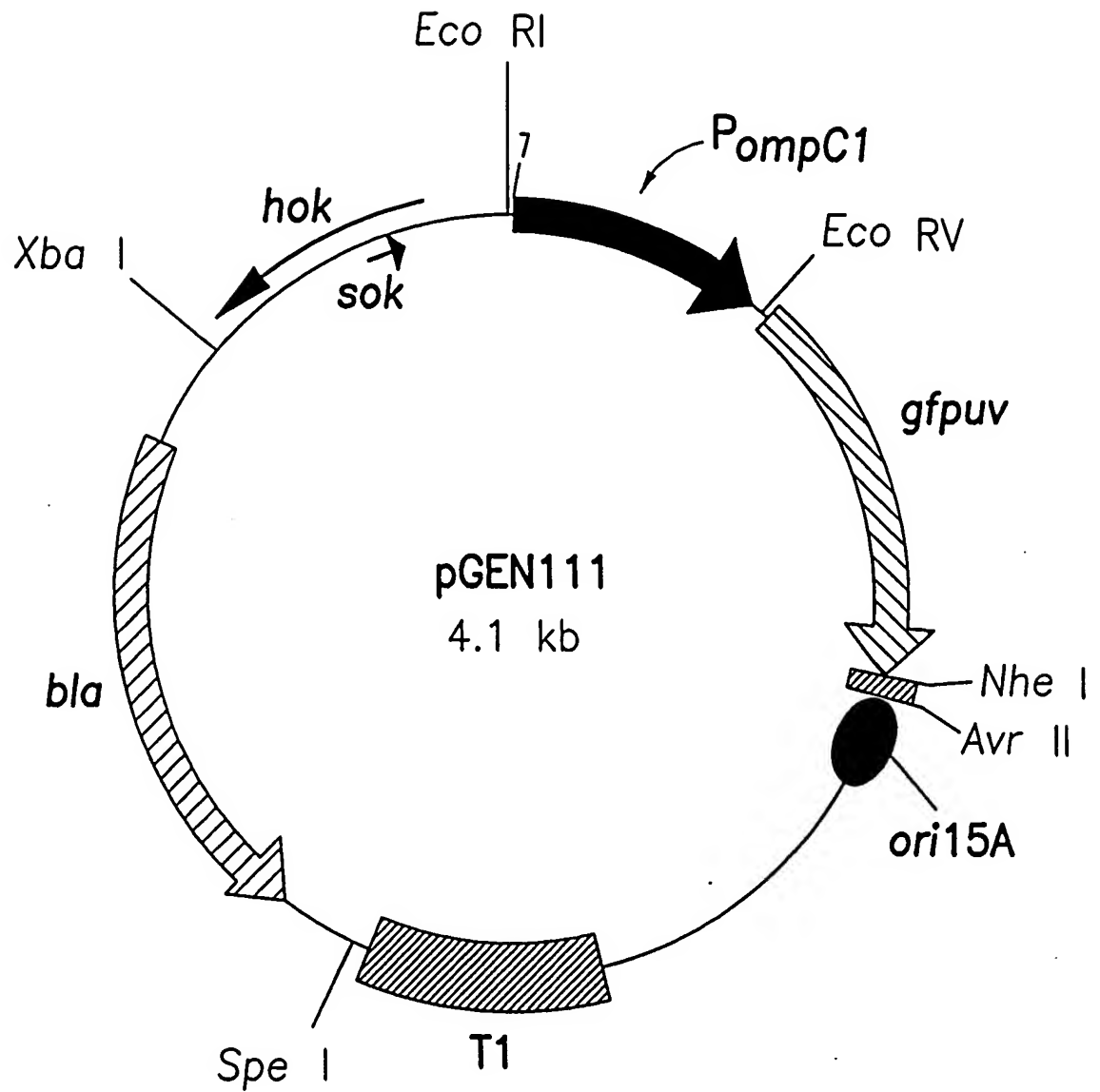


FIG.7B

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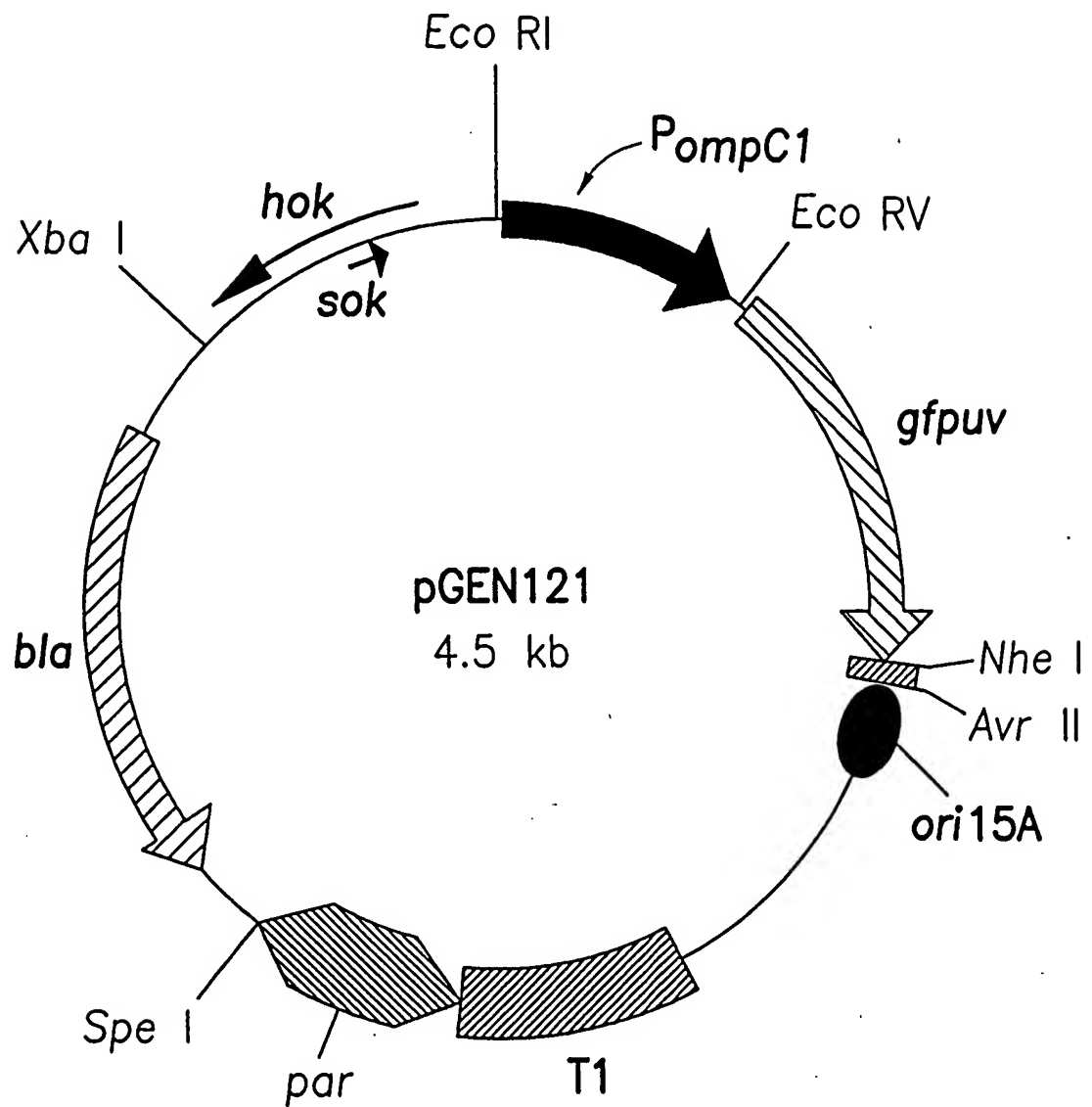


FIG.7C

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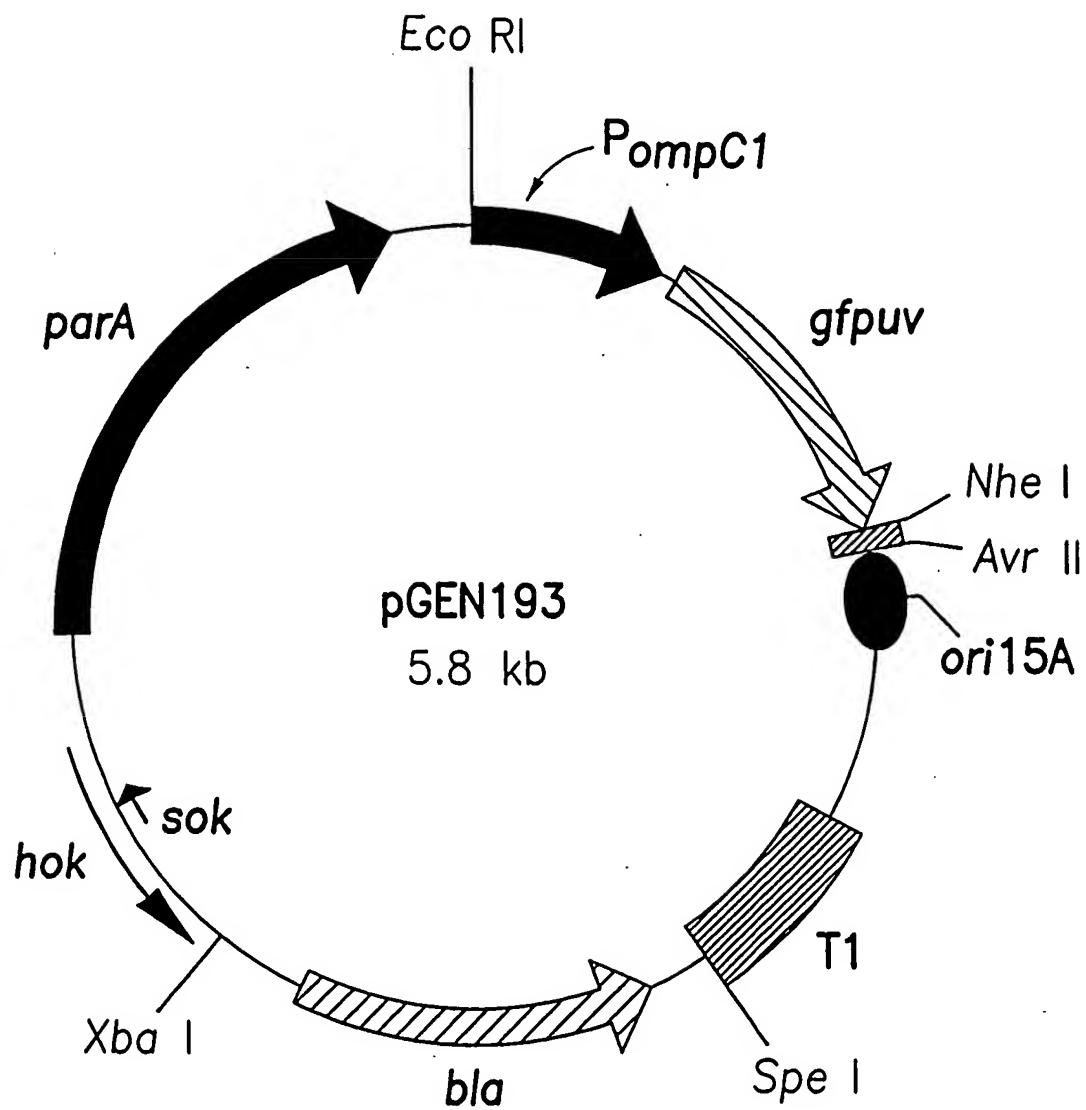


FIG.7D

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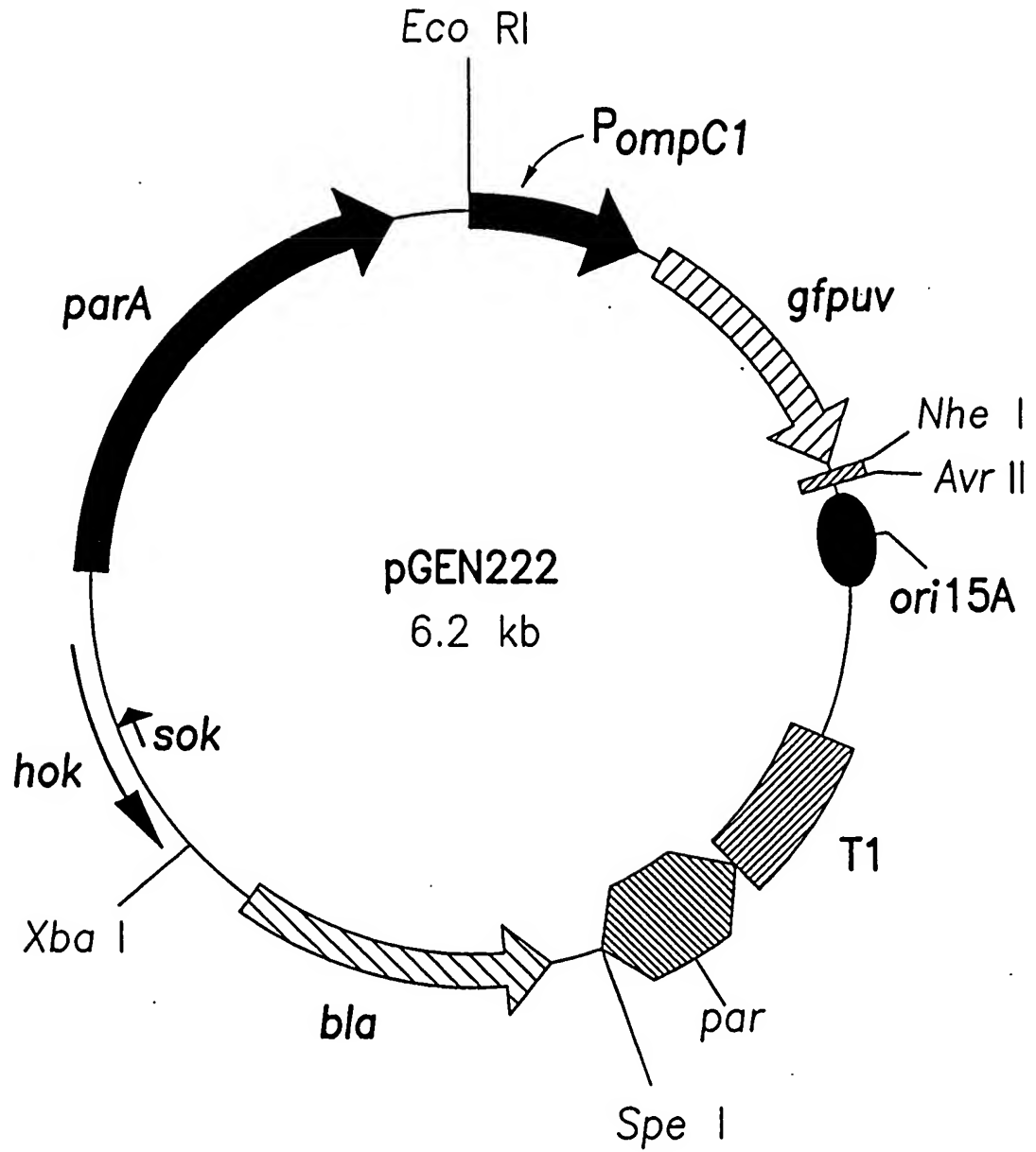
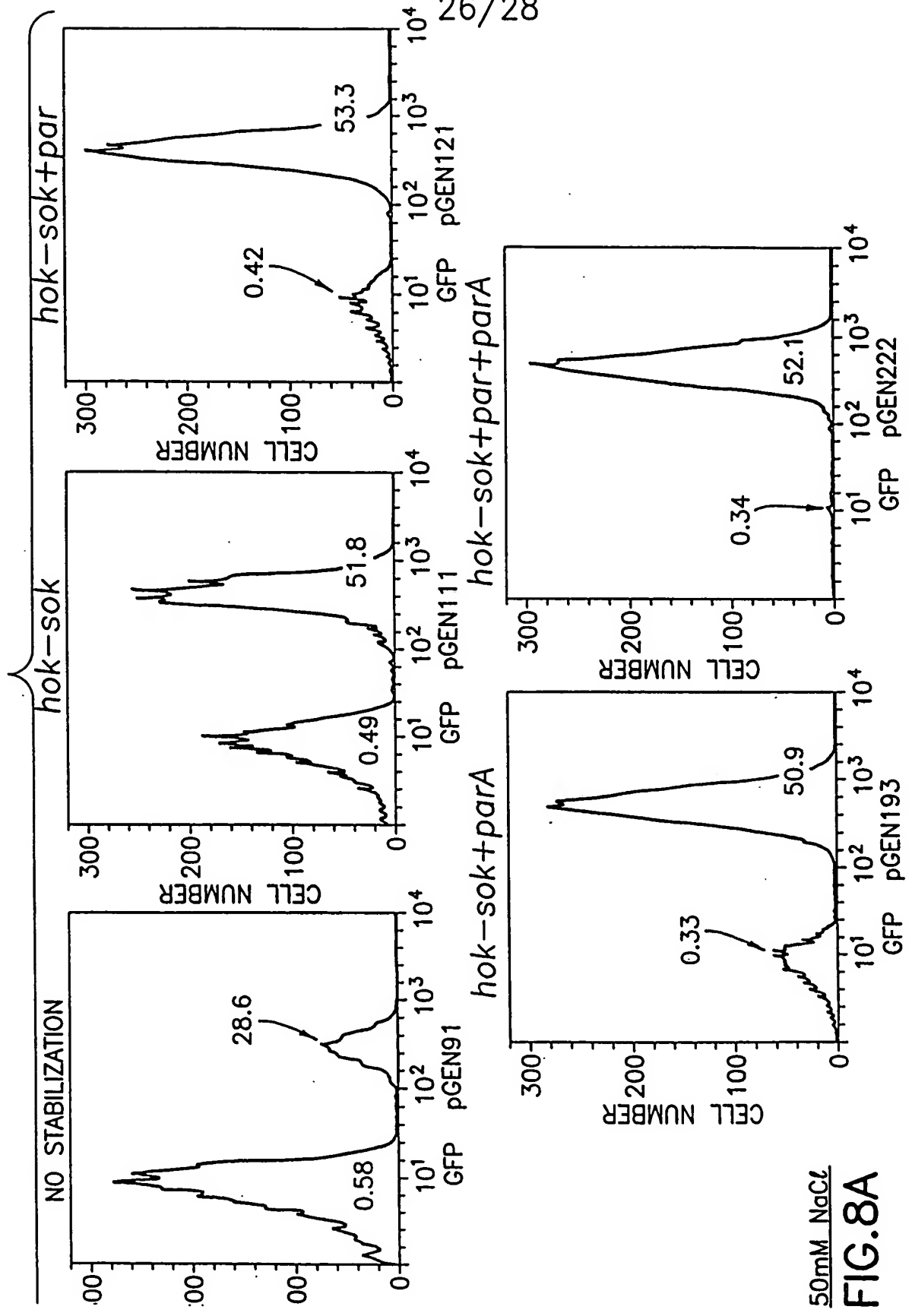
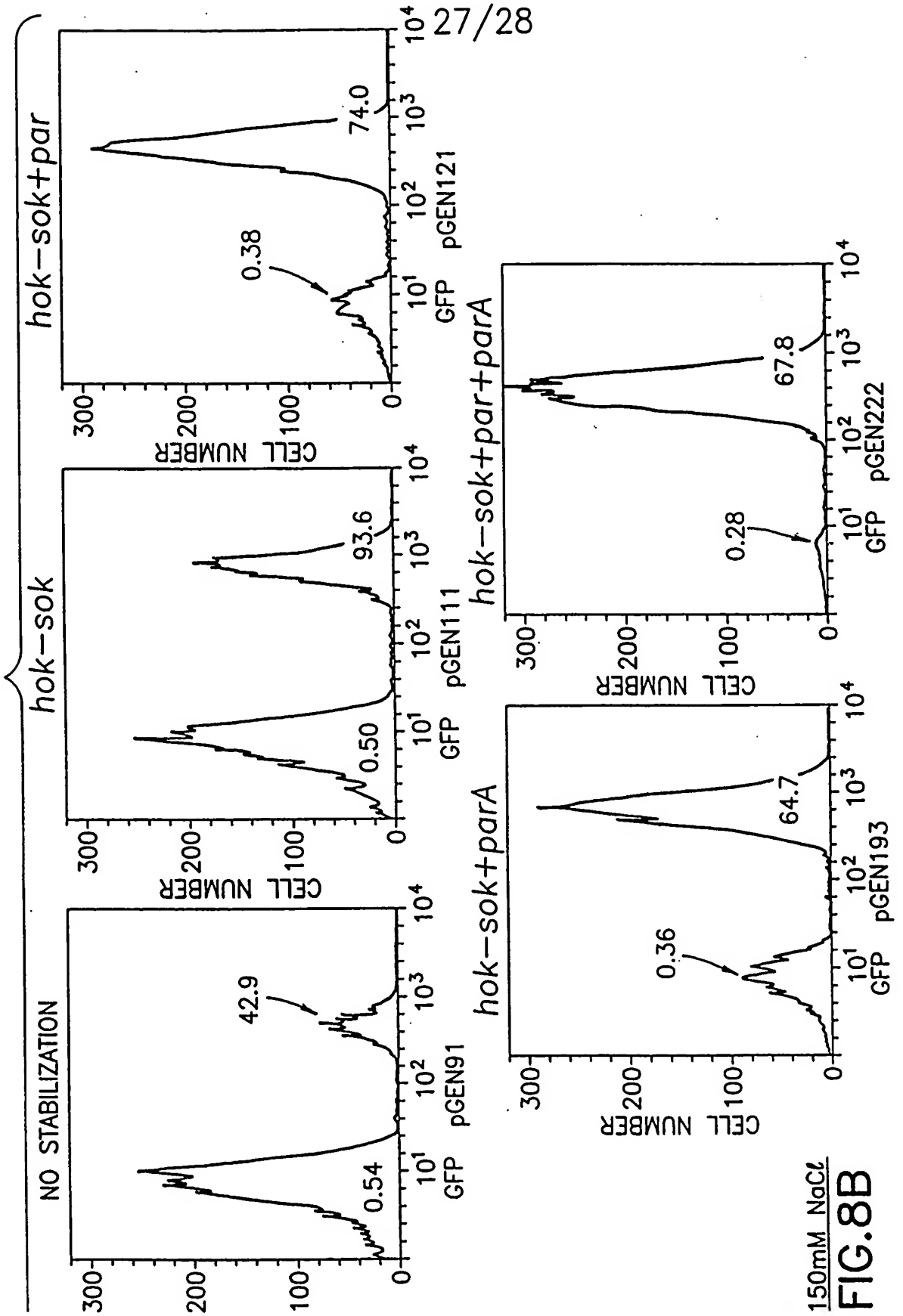


FIG.7E

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150mM NaCl
FIG.8B

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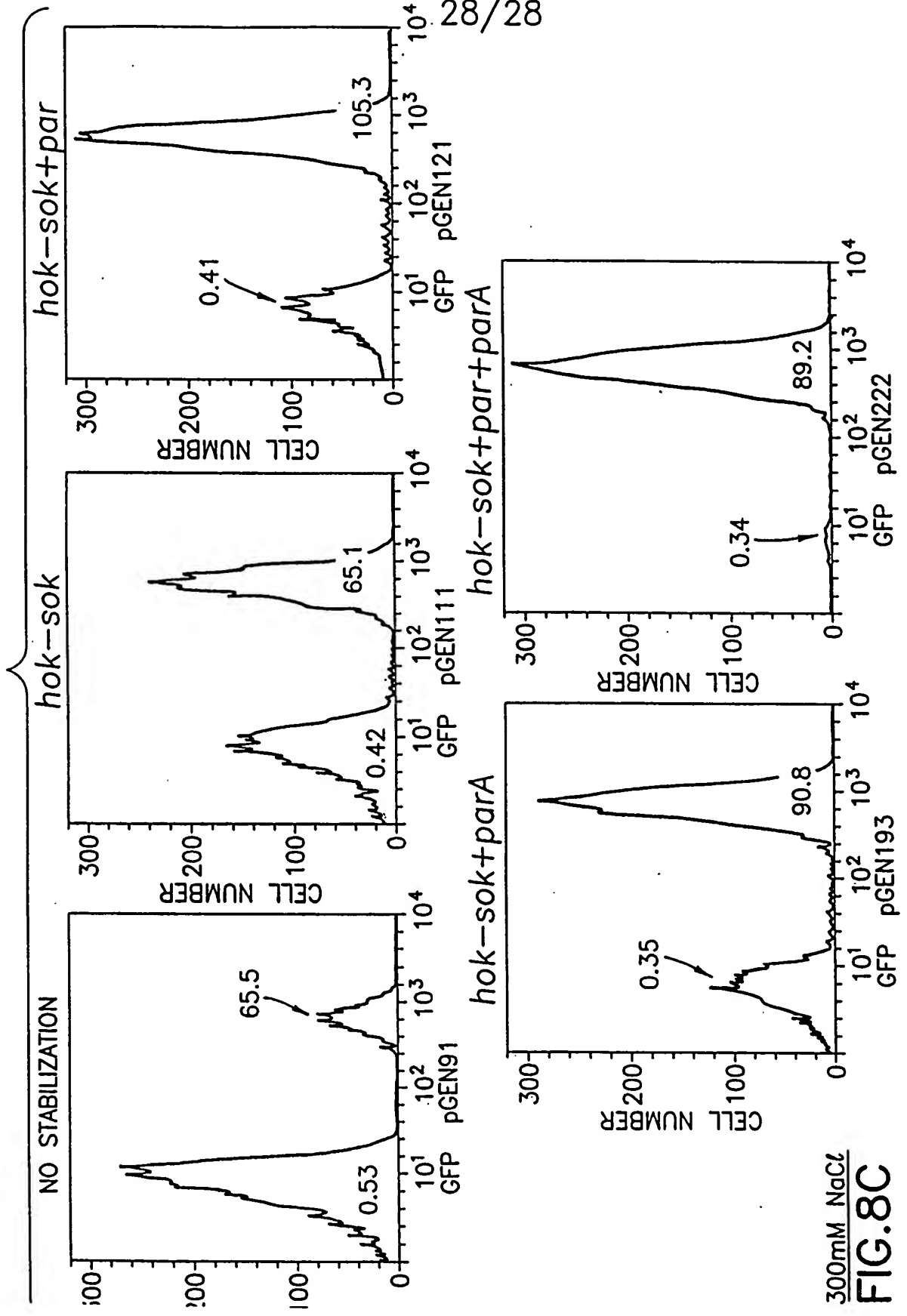


FIG.8C